

CLAIMS:

1. A method of correcting a video signal, the method comprising:
providing a plurality of correction data;
comparing the correction data to safety margin data; and
determining a level of correction based on the comparing, wherein correction of video non-uniformity is provided, but clipping of the video signal is substantially prevented.
2. A method as recited in claim 1, wherein the providing of the correction data comprises interpolating the correction data using a two-dimensional interpolation technique.
3. A method as recited in claim 1, wherein the method includes providing said safety margin data by interpolating stored safety margin data.
4. A method as recited in claim 1, wherein said correction of video comprises, based on said comparing, applying a particular level of video correction.
5. A method as recited in claim 4, wherein said particular level of video correction is less than or equal to an absolute minimum video modification safety margin value.
6. A method as recited in claim 2, further comprising evaluating a limited number of pixels of an LCD to determine said correction data for a particular interpolation block.
7. A method as recited in claim 3, further comprising evaluating a limited number of pixels of an LCD to determine said safety margin data for a particular interpolation block.
8. A method as recited in claim 3, wherein said interpolating is a two-dimensional interpolation technique.

9. An apparatus for correcting a video signal comprising:
a correction device, which compares correction data with safety margin data to determine a level of video correction based in the comparison, wherein video correction is provided, but video signal clipping is substantially prevented.
10. An apparatus as recited in claim 9, further comprising a safety margin device, which stores said safety margin data, and a correction coefficient device, which stores said correction data.
11. An apparatus as recited in claim 10, wherein said safety margin device and said correction coefficient device are each input to said correction device, which provides interpolated correction data and interpolated margin safety data based on input from said correction data device and said margin safety device, respectively.
12. An apparatus as recited in claim 11, wherein said comparing is performed using said interpolated correction data and interpolated margin safety data.
13. An apparatus as recited in claim 1, wherein said correction device applies said level of video correction to an LCD, and said level is less than or equal to an absolute minimum video modification safety margin.
14. An apparatus as recited in claim 10, wherein said stored safety margin data is determined by evaluating a limited number of pixels of an LCD.
15. An apparatus as recited in claim 11, wherein said interpolated correction data is determined using a two-dimensional interpolation technique.
16. An apparatus as recited in claim 15, wherein said two-dimensional interpolation technique is a bi-linear interpolation technique.

17. An apparatus as recited in claim 11, wherein said interpolated margin safety data determined using a two-dimensional interpolation technique.
18. An apparatus as recited in claim 17, wherein said two-dimensional interpolation technique is a bi-linear interpolation technique.